TECHNICAL SPECIFICATION: PULSE BUTTON (THE HEART)

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EXECUTIVE SUMMARY: > This document establishes international Prior Art for the "Pulse Button," a variable-resistance haptic input device utilizing magnetorheological (MR) fluid. This system specifically addresses the "Ghost Hand" phenomenon in Augmented Reality (AR) through a closed-loop spatial-haptic synchronization protocol.

KEY TECHNICAL DISCLOSURES: > 1. **Active Actuation:** Force feedback range of 0.5N to 8.0N via MR-fluid viscosity modulation with sub-5ms response. 2. **Harmonic Downconversion:** Method of synchronizing haptic pulses to an external optical orbital frequency (e.g., HAWK AI Scout) at 1:1, 1:2, and 1:4 sub-harmonic ratios. 3. **Point P Reconciliation:** Three-point coordinate framework (F1, F2, P) utilizing hybrid 9-axis IMU and optical triangulation to eliminate spatial drift at 90Hz+ update rates. 4. **Communication:** BLE 5.2 protocol with a total system latency budget of <8ms.

LEGAL NOTICE: > This publication serves as an enabling disclosure under the Patents Act 1977 (UK) and international patent laws to prevent the future granting of patent claims for the methods and systems described herein.

Keywords: #Haptics #MRFluid #PulseButton #AR #PriorArt #MetaGuineaGhost #SpatialComputing #UKPatentsAct1977 #MetaGuineaGhost